

ZAIGALLER, V.A. (Leningrad); OSTROVSKIY, A.I. (Moscow); NOVIKOVA, V.S.
(Urekhovo-Zuyevo); ZHAROV, V.A. (Yaroslavl'); SVOBODA, A.
(Chekhoslovakiya); DYNKIN, Ye.B. (Moscow); BALASH, E.E. (Moscow)

Problems of elementary mathematics. Mat. pros. no.1:219-224 '57.
(MIRA 11:7)
(Mathematics--Problems, exercises, etc.)

ZALGALLER, V.A. (Leningrad)

Substituting the root of one series into another series. Mat. pros.
no.2:181-185 '57. (MIRA 11:7)

(Series)

AUTHOR:

~~ZALGALLER, V. A.~~

43-7-6/18

TITLE:

On a Method for the Introduction of the Measure (Ob odnom sposobe vvedeniya mery)

PERIODICAL:

Vestnik Leningradskogo Universiteta, Seriya Matematiki, Mekhaniki i Astronomii, 1958, Nr 7 (2), pp 49-51 (USSR)

ABSTRACT:

The author has the effort to collect in a uniform scheme the different methods used by A.D. Aleksandrov for definitions of the curvature and the area. Therefore he proposes the following definition of measure. Let t_i denote a closed connected set.

Let S be a system of the t_i in the metric space R . For $t_1, t_2 \in S$ let the definition $t_1 \bar{\cap} t_2$ ("non-overlapping") be defined, where
a) from $t_i \bar{\cap} t_j$ there follows $t_j \bar{\cap} t_i$, b) from $t_i \cap t_j = 0$ there follows $t_i \bar{\cap} t_j$, c) from $t_i \bar{\cap} t_j$ and $t_k \subset t_j$ there follows $t_i \bar{\cap} t_k$.

On the sets $t \in S$ let be defined a function $\varphi(t)$, $\varphi(0) = 0$, $\varphi(t) \geq 0$. Let $\{P\}$ be a system of sets, where every set admits at least one representation as a finite sum of pairwise "non-overlapping" $t_i \in S$. Let T_p be a certain representation of this

Card 1/2

kind. Let $d(T_p)$ be the greatest diameter of the $t_i \in T_p$. Then let

On a Method for the Introduction of the Measure

43-7-6/18

$$\mu_0(P) = \overline{\lim}_{d(T_P) \rightarrow 0} \sum_{t_j \in T_P} \varphi(t_j) \text{ and } \mu_0(P) = 0 \text{ if there does not}$$

exist a T_P with an arbitrarily small $d(T_P)$. For an open set G
let $\mu_1(G) = \sup_{P \subset G} \mu_0(P)$ and for arbitrary M : $\mu(M) = \inf_{G \subset M} \mu_1(G)$.

The author gives conditions under which $\mu(M)$ is the measure of Caratheodory, the exterior measure of Lebesgue, the variation of a curve (in the sense of Aleksandrov), the area of M and the positive part of the curvature $\omega^+(M)$.
5 Soviet references are quoted.

SUBMITTED: February 25, 1957
AVAILABLE: Library of Congress

Card 2/2

1. Measurement-Theory 2. Mathematical analysis

16(1)
AUTHOR: Zalgaller, V.A. SOV/43-58-19-1/16
TITLE: The Attraction of Round Plates ; The Irradiation of a Round
Target by a Round Source (Prityazheniye kruglykh plastin ;
oblucheniye krugloy misheni kruglym istochnikom)
PERIODICAL: Vestnik Leningradskogo universiteta, Seriya matematiki,
mekhaniki i astronomii, 1958, Nr 19(4), pp 58 - 75 (USSR)
ABSTRACT: The paper contains numerous applications of the method of
Hammersley [Ref 1] (reduction of the multiplicity of a
multiple integral) to several problems of applied sciences.
The results are partly already known, partly rather obvious.
There are 13 figures, and 10 references, 4 of which are
Soviet, 3 English, 1 German, 1 American, and 1 French.
SUBMITTED: April 16, 1957

Card 1/1

AUTHOR: Zalgaller, V.A. SOV/20-123-4-5/53
TITLE: Isometric Imbedding of Polyhedra (Izometricheskoye vlozheniye poliedrov)
PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 4, pp 599-601 (USSR)
ABSTRACT: The following theorem is proved:
Let $n = 1, 2, 3$ or 4. Let the polyhedron P^n consist of simplexes of the space R^n of constant curvature. Every P^n can be imbedded isometrically into the R^n if self-intersections and overlappings are admitted.
The proof is constructive and is given by the author for $n = 1, 2, 3$. The proof for $n = 4$ is not given because it is too complicated. A proof for $n > 4$ could not be obtained.
ASSOCIATION: Leningradskoye otdeleniye matematicheskogo instituta imeni V.A. Steklova Akademii nauk SSSR (Leningrad Section of the Mathematical Institute imeni V.A. Steklov, AS USSR)
PRESENTED: July 7, 1958, by V.I. Smirnov, Academician
SUBMITTED: July 2, 1958

Card 1/1

16.5500

69754

S/043/60/000/02/05/011

AUTHORS: Burago, Yu.D., and Zalgaller, V.A.

TITLE: Polyhedral Imbedding of a Net 10

PERIODICAL: Vestnik Leningradskogo universiteta, Seriya matematiki,
mekhaniki i astronomii, 1960, No.2, pp 66-80

TEXT: Given a complex of plane triangles homeomorphic to a closed region on an orientable two-dimensional surface. Then in the E^3 there exists a polyhedron without a self-intersection which is isometric to this complex. The author mentions A.D.Aleksandrov. There are 9 figures and 5 references: 2 Soviet, 1 English and 2 American.

Card 1/1

AKILOV, G.P.; VULIKH, B.Z.; GAVURIN, M.K.; ZALGALLER, V.A.; NATANSON,
I.P.; PINSKER, A.G.; FADDEYEV, D.K.

Leonid Vital'evich Kantorovich; on his 50th birthday. Usp.
mat.nauk 17 no.4:201-215 '62. (MIRA 15:8)
(Kantorovich, Leonid Vital'evich, 1912-)

ZAIGALLER, V.A.

Curves on a surface near a point type dpt. Trudy Mat. inst.
76:64-66 165. (MIRA 18:6)

BURAGO, Yu.D.; ZALGALLER, V.A.

An isoperimetric problem involving an area of bounded width on
a surface. Trudy Mat. inst. 76:81-87 '65. (MIRA 18:6)

ZAIGALLER, V.A.

Regular-faced polyhedra. Vest. LGU 20 no.1:150-152 '65.

(MIRA 18:2)

BELYAYEVA, T.B.; ZALGALLER, V.A.

Formulation of the theory of envelopes; a methodological note.

Usp. mat. nauk 18 no.5:137-149 S-0 '63.

(MIRA 16:12)

ZALGALLER, V.A.

Regular polyhedra. Vest. LGU 18 no. 7:5-8 '63.
(Polyhedra)

(MIRA 16:4)

ZAIGALLER, V. A.

Representation of a function of two variables as the difference
of convex functions. Vest. LGU 18 no.1:44-45 '63.
(MIRA 16:1)

(Functions of several variables)
(Programming(Electronic computers))

YEFIMOV, N.V.; ZALGALLER, V.A.; POGORELOV, A.V.

Aleksandr Danilovich Aleksandrov; on his 50th birthday. Usp.
mat.nauk 17 no.6:172-184 N-D '62. (MIRA 16:1)
(Aleksandrov, Aleksandr Danilovich, 1912-)

ALEKSANDROV, Aleksandr Danilovich; ZALGALLER, Viktor Abramovich;
PETROVSKIY, I.G., akademik, otv.red.; NIKOL'SKIY, S.M., prof.,
zamestitel'-otv.red.; BARKOVSKIY, I.V., red.izd-va; ZENDEL',
M.Ye., tekhn.red.

[Two-dimensional manifolds of bounded curvature; fundamentals of
the internal geometry of surfaces] Dvumernye mnogobrazia
ogranichennoi krivizny; osnovy vnutezrnnnei geometrii poverkhnostei
Moskva, Izd-vo Akad. nauk SSSR, 1962. 262 p. (Akademiya nauk
SSSR. Matematicheskii institut. Trudy, vol. 63).

(Surfaces)

(Curves)

(MIRA 16:2)

ZALGALLER, V.A.

Possible characteristics of smooth surfaces. Vest.LGU 17
no.7:71-77 '62.

(Surfaces)

(MIRA 15:5)

ZAIGALIER, V.A. (Leningrad)

How to get out of the wood? One of Bellman's problems. Mat.pros.
no.6:191-195 '61. (MIRA 15:3)

(Programming(Mathematics))

ZAIGALLER, V.A. (Leningrad); RUDENKO, N. (Moskva); DAVYDOV, U. (Gomel');
RABINOVICH, V. (Petrovsk-Kazakhstanskiy); BESKIN, L.N. (Moskva);
TANATAR, I.Ya. (Moskva); SKOPETS, Z.A. (Yaroslavl'); DUBNOV, Ya.S.
(Moskva); GEL'FOND, A.O. (Moskva); ROBINSON, R.M. (SSHA); BALK,
M.B. (Smolensk); SHUB-SIZONENKO, Yu.A. (Moskva)

Solutions to the problems. Mat. pros. no.5:261-274 '60.

(MIRA 13:12)

(Mathematics—Problems, exercises, etc.)

ZAIGALLER, V.A. (Leningrad)

Comments on the Radó problem. Mat. pres. no.5:141-148 '60.

(MR 13:12)

(Functions of real variables)

ZALGAUTSKAYA, I.K.

USSR/Cultivated Plants - Technical, Oil, and Sugar Plants.

M-4

Abs Jour : Ref Zhur - Biol., No 3, 1958, 10916

Author : Zalgautskaya, I.K.

Inst :

Title : An Experiment in the Square-Nest Distribution of Plants.

Orig Pub : Sakharnaya svekla, 1957, No 4, 5-8

Abstract : Experiments conducted in 1948-1953 on the Mezhotnens Testing and Selecting Stations (Latvian SSR) have demonstrated that under Latvian conditions a distance of 44.5 cm. between rows gives no better yields or higher sugar content than a distance of 60 cm. The 60 cm. distance reduces labor input in the gaps by 25% and creates the best conditions for mechanical cultivation "sharovka" and plowing between the rows. When the square nest method was used (60 x 60 cm.) and two plants were left 7-8 cm. apart in the nest, the yield was 450-500 centners per hectare.

Card 1/1

ZALIBEKOV, Z.G.

Identification of brown soils in the Aktash Piedmont Plain
of Daghestan. Pochvovedenie no.10:33-41 O '65. (MIRA 18:11)

1. Dagestanskiy gosudarstvennyy universitet.

VYDRA, A.Ya.; ZALICHENKO, Z.Ya.; DERBAREMDIKER, P.Z.

Effect of the concentration of the sizing solutions and
additives on the viscosity of the product. Leh.prom. no.1:
66-70 Ja-Mr '62. (MIRA 15:9)

1. Darnitskiy shelkovyy kombinat.
(Sizing)

ZALICHEV, N., inzh.; ROVNER, L., inzh.

Use of punched cards in the operative calculations of ship
repair. Mor. flot. 24 no.11:33-34 N '64. (MIRA 18:8)

ZALICHENOK, Gavriil Grigor'yevich, kand. tekhn. nauk, laureat
Gos. premii; SHCHEDROVITSKIY, S.S., kand. tekhn. nauk,
nauchn. red.; KUFERSHMIDT, L.S., red.

[Automating enterprises of the construction industry]
Avtomatizatsiia predpriatii stroitel'noi industrii.
Moskva, Vysshaya shkola, 1965. 419 p. diag.
(MIRA 18:12)

ZALICHONOK, Nikolay Anisimovich [Zalichonak, N.A.], ekskavatorshevik;
MISHANIYA, Ye.A., red.; UCHUKHLEBAU, A.A., tekhn. red.

[Full load for excavators] Ekskavatory - poumnu nahruzku.
Minsk, Dziarzh. vyd-va sel'skohospadarchai lit-ry BSSR, 1962.
29 p. (MIRA 15:11)

1. Rudakovskoye Belorusskoye meliratsionnoye upravleniye,
Gomel'skoy oblasti (for Zalichonok).
(White Russia—Drainage)

POLAND

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001963710004-0"

ZALICHTA, Stefania and BLASZYNSKA, Maria; Department of Medical Microbiology
at Medical Academy (Zaklad Mikrobiologii Lekarskiej AM) Head (Kierownik) Prof
Dr J. PARNAS, Lublin.

"Physiological Changes in Streptococci Maintained on Blood Agar Media."

Warsaw, Medycyna Doswiadczalna i Mikrobiologia, Vol 18, No 1, 1966; pp 15-21.

Abstract [English summary modified]: Study of persistence of strain-specific properties in 155 streptococcal strains: alpha and beta-hemolytic activities tended to decrease but there was no complete loss or acquisition de novo of either after about 6 years' cultures. Some strains became more similar to enterococci as regards optimal growth media following 2 years in sheep blood agar. Two tables, 3 Polish and 11 Western references.

I 25933-66 T JK

ACC NR: AF6016400

(A)

SOURCE CODE: G1/0038/65/019/004/1095, 1102

AUTHOR: Parnas, Josef (Professor; Doctor; Director; Lublin); Zalichta, Stefania (Doctor; Lublin); Tuszkiewicz, Maria (Doctor; Lublin)

ORG: Institute of Medical Microbiology and Epidemiology, /directed by Prof.,
Dr. J. Parnas, Polish Academy of Medicine, Lublin

TITLE: Phenomenon of brucella phage adsorption through chemical brucella substrates

SOURCE: Archiv fur experimentelle Veterinarmedizin, v. 19, no. 4, 1965, 1095-1102

TOPIC TAGS: bacteriophage, virology, bacteriology

ABSTRACT: Acetone substrates of three brucella species (Br. bovis, suis, melitensis) can exert specific inhibition on brucella phage activity. Acetone substrates of other bacterial species do not exert this inhibition. The specificity of this effect was confirmed by experiments with staphylococcus phages which were not inhibited by brucella substrates. The greatest inhibition was exerted by the substrate of Br. suis, the least by Br. melitensis. Inhibition was proportional to the dilution. It is considered probable that Br. melitensis strains contain an antigen substance on their cell wall which serves as receptor of the brucella phages. In the majority of the members this may be localized in the interest of the cells, and yet be potentially present. It seems possible that the dehydration of the cells with acetone and the drying process effects a shifting of these receptors closer to the cell wall. A differentiation of Br. species is not possible by means of this inhibition test since all three inhibit the Br. phage activity. Orig. art. has: 3 figures and 5 tables. /Based on authors' abstr./ [JPRS]

SUB CODE: 06 / SUBM DATE: 21Dec64

Card 1/1

ZAGRODZKI, Stanislaw; WALERIANCZYK, Edmund; ZALICKI, Jerzy

Delimining of sugar solutions by cation-exchanger in the
natrium and ammonium cycle. Roczn. tech. chem. zywn. 8:5-18 '61.

1. Katedra Cukrownictwa i Technologii Srodkow Spozywczych,
Politechnika, Lodz. Kierownik Katedry: prof. dr. S. Zagrodzki.

ZAGRODZKI, Stanislaw (Lodz); KUBIAK, Jan (Lodz); ZALICKI, Jerzy (Lodz)

Production of lactic acid from potato syrup. Przem spoz 15 no.9:
26-33 '61.

ZALICHENKO, L.G.

Pulse Techniques (55036881)

TK7835.M4 1954

1. Pulse techniques (Electronics) I. Zalichenko, L. G.

PARNAS, J.; ZALICHTA, S.

Further data on the characteristics of Brucella phages: inactivation by antigenic acetone substrates of Brucella. Bull. acad. Pol. sci. (Biol) 13 no.3:145-150 '65.

1. Submitted December 9, 1964.

ZALIGIN, O.G. [Zalyhin, O.H.], inzh.-mekhanik

Preparing granulated organomineral fertilizers. Mekh. sil'. hosp,
12 no. 3:10-12 Mr '61. (MIRA 14:4)

(Fertilizers and manures)

ZALIGYAN, G.G., lyubitel'-sadovod

An effective means. Zashch. rast. ot vred. i bol. 9 no.9:38 '64.
(MIRA 17:11.)

ZALIKBEKOV, Z. G.

Several problems in the soil zonality of the Aktash piedmont
plain in Daghestan. Izv. Vses. geog. ob-va 96 no. 2:139-140
Mr-Ap '64. (MIRA 17:5)

STREPIKHEYEV, Yu.A.; ZALIKIN, A.A.; CHIMISHKYAN, A.L.

Determination of primary, secondary, and tertiary amino groups
in polynuclear polyamines. Zhur.anal.khim. 18 no.10:1262-1265
0 '63. (MIRA 16:12)

1. Mandeleev Moscow Chemico-Technological Institute.

ZALIKIN, A.A.; KOCHETKOV, V.L.; STREPIKHEYEV, Yu.A.

Some physical and physicochemical constants of m- and p-chloraniline and m- and p-chlorophenylisocyanates.

Khim. prom. 41 no.5:338 My '65.

(MIRA 18:6)

1. Moskovskiy khimiko-tekhnologicheskij institut imeni Mendeleeva.

L 37218-66 EWP(j)/EWT(m)/T/EWP(v) IJP(c) RM/WW/JWD

ACC NR: AP6018128 ((A)) SOURCE CODE: UR/0191/66/000/006/0046/0048

AUTHOR: Zalikin, A. A.; Davydov, A. B.; Strepikheyev, Yu. A.; Ivanova, Z.G.

ORG: none

TITLE: Use of polycyclic polyisocyanates as components in cold curing adhesive compositions

SOURCE: Plasticheskiye massy, no. 6, 1966, 46-48

TOPIC TAGS: isocyanate resin, polyester plastic, adhesive, adhesion, heat resistance

ABSTRACT: The possibility of using polycyclic polyisocyanates (A) in adhesives that will cure without heat to attain improved heat stability was investigated. A, made of aniline, o-toluidine, or o-chloroaniline with formaldehyde, were used as 50% acetone or toluylene diisocyanate solutions. To prepare the adhesive various polyesters were added, also as 50% acetone solutions or as powders. The components were mixed, catalyzed with a 5% aqueous potassium methacrylate solution, mixed again and spread onto steel or duralumin surfaces 30-40 minutes later. Bond strength and heat stability depended on the composition of the polyisocyanate, increasing with increase in its molecular weight and

Cord 1/2

UDC: 678.664.668.395.6

L 37218-66

ACC NR: AP6018128

number of NCO- groups. Physical mechanical properties of the adhesive and its bond strength at room temperature and at 150-200°C also improved with increase in curing time. With cementing temperatures of 60-120°C the same bond strength was attained in 2 hours as when curing at room temperature for 10 hours. Bond strength also depended on surface preparation--best adhesion was obtained with freshly sandblasted surfaces. Orig. art. has: 6 tables.

SUB CODE: 07,11/ SUBM DATE: none/ ORIG REF: 002/ OTH REF: 009

ms
Card 2/2

ACC NR: AP6009027

(A)

SOURCE CODE: UR/0064/65/000/011/0017/020

AUTHOR: Zalikin, A. A.; Strepikheyev, Yu. A.

ORG: none

TITLE: Synthesis and properties of the polynuclear polyisocyanates

SOURCE: Khimicheskaya promyshlennost', no. 11, 1965, 17-20

TOPIC TAGS: polymer, synthetic material, polyamine compound, isocyanate resin, polyurethane, IR spectrum

ABSTRACT: Several polynuclear polyisocyanates with molecular weights of 280-500, 21.6-33.6% NCO-groups, and 1.3-11.2% hydrolyzable chlorine were synthesized via a two-stage phosgenation of various mixtures of polymethylenepolyphenylenepolyamines in chlorobenzene. The temperature in the first stage was 100°C and its duration was 75 min. The temperature in the second stage was 120°C and its duration was 75 min. The yields of the polynuclear polyisocyanates were within the 92-97% range. The starting polyamines, with 158-400 molecular weight and 6.9-14.8% NH₂-group content, were synthesized from aniline, ortho- and paratoluidine, o-chloroaniline, formaldehyde, benzaldehyde, and acetaldehyde. It was found that the molecular weight and the chlorine content in polyisocyanates depended upon the molecular weight and the structure of the starting polyamines. The presence of such groups as COCl, C=O, and C-Cl in the poly-

Card 1/2

UDC: 678.661.01

ACC NR: AP6009027

isocyanate products were determined by the IR technique. Orig. art. has: 4 figures, 4 tables.

SUB CODE: 07/

SUBM DATE: none/

ORIG REF: 004

Card 2/2

ZALIKIN, G. A.

Volga-Don Canal

Sanitary services at the construction of the Volga-Don Canal. Sov. med. 16 No. 7, 1952

Monthly List of Russian Accessions, Library of Congress, November 1952. Unclassified.

ZALIKIN, G.A.

First All-Union Conference on problems of school hygiene. Gig. i zen. no. 9:
55-57 S '53.

(MLRA 6:8)

(School hygiene)

ZALIKIN, G.A., vrach.

Charts on hygiene ("Visual aids for teaching human anatomy and physiology in the 8th class of the secondary school." O.V.Flerov. Reviewed by G.A.Zalikin). Est.v shkole no.5:94-96 S-0 '54.

(MIRA 7:9)

1. Ministerstvo zdavookhraneniya SSSR.
(Flerov, O.V.) (Hygiene--Study and teaching)

ZALIKIN, G.A.

ZALIKIN, G.A.

"Research methods used in sanitation and public health." V.M.
Aleksandrov. Reviewed by G.A.Zalikin. Gig. i san. no.6:58-61
Ja '54. (MLRA 7:6)

(SANITATION RESEARCH)

(PUBLIC HEALTH RESEARCH)

ZALIKIN, G.; YEGOROVA, O. (Moskva)

For a wider involvement of the people in the campaign for a healthy
life. Fel'd. i akush. 25 no.4:18-21 Ap '60. (MIRA 14:5)
(TULA PROVINCE—PUBLIC HEALTH)

ZALIKIN, G.A.

In the Collegium of the Ministry of Public Health of the R.S.F.S.R.
Zdrav. Ros. Feder. 4 no. 5/44-45 My '60. (MIRA 13:11)
(PUBLIC HEALTH)

ZALIKMAN, T.I.

Hardening parts by spraying. Mashinostroitel' no.6:38-39
Je '63. (MIRA 16:7)

(Metal spraying) (Plastic spraying)

L 07450-67 EWT(m)/EWP(j) RM
ACC NR: AP6035833

SOURCE CODE: UR/0413/66/000/020/0037/0037

INVENTOR: Raver, Kh. R.; Zalikina, L. M.; Bruker, A. B.; Soborovskiy, L. Z.

2.7

13

ORG: none

TITLE: Preparative method for phenyl-1,1,2,2-tetrafluoroethylphosphinotributoxytita-
nium. Class 12, No. 187020 15

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 20, 1966, 37

TOPIC TAGS: organic phosphorus compound, organotitanium compound, chemical synthesis

ABSTRACT: An Author Certificate has been issued for a method of preparing phenyl-1,1,2,2-tetrafluoroethylphosphinotributoxytitanium. The method involves the reaction of sodium phenyl-1,1,2,2-tetrafluoroethylphosphide with tributoxychlorotitanium at 40°C in an organic solvent (e.g., toluene). 7

SUB CODE: 07/ SUBM DATE: 18Oct65/ ATD PRESS: 5104

23248

S/080/61/034/008/012/018
D204/D305

11800

AUTHORS:

Tomashov, N.D. and Zalikov, F.P.

TITLE:

The influence of the structure of thick anodically oxidized films on their properties

PERIODICAL:

Zhurnal prikladnoy khimii, v. 34. no. 8, 1961, 1799-1807

ABSTRACT: The investigation covered the dependence of certain properties of anodically oxidized films, produced by the hard anodizing method as developed by the Institut fizicheskoy khimii (Institute of Physical Chemistry) at USSR, on their structure. Specimens of 99.99% pure aluminum, as well as of a number of binary aluminum alloys, specially cast and heat treated by homogenization and subsequent water quenching, were used. Duralumin D16ABTV (3.8 - 4.9% Cu, 1.2 - 1.8% Mg, 0.3 - 0.9% Mn, 0.5% Si, 0.5% Fe, remainder Al) was also studied. Anodic oxidation was carried out in a 4 N H₂SO₄ solution at a temperature of -20° and anode current densities of 2.5, 5 and 10 A/dm². The formation voltage corresponding to these curr-

Card 1/5

25278

5/080/61/034/008/012/018
D204/D305

The influence of the structure...

ent densities was 22 - 27 V for aluminum and 25 - 35 V for aluminum alloys (the formation voltage is the voltage across the cathode and the anode of the bath at the time when the porous part of the film above the barrier layer begins to grow). Comparison between the structure of the anodic film forming in the normal anodizing process ($i_{Ca} = 1 \text{ A/dm}^2$, formation voltage = 10 V, $t = 200$) was also made. Dissipation of the intense heat emitted during anodizing was carried out by means of internal cooling, in which heat was conducted away by supplementary cooling of the anodized component, or else by means of circulation of the electrolyte itself. In individual cases, simple mechanical stirring of the electrolyte was sufficient. The total porosity of the anodic films was determined by saturating the films with mineral oil at 95°. Hardness measurements were carried out by means of a PMT-3 machine, using a load of 20 g on the diamond pyramid. The wear resistance of the anodic coatings was studied with a Shkoda-Savina machine fitted with a revolving disc made of the superhard "Vidia" alloy, in a jet of 0.5% K_2CrO_4 solution. The microstructure of the anodically oxidized films was examined through

Card 2/5

25018

S/080/61/034/008/012/018
D204/D305

The influence of the structure...

EM-3 and EUM-100 electron microscopes. Negatives of $8 - 12 \times 10^3$ magnifications were obtained. The metallurgical microscope MM-6 was used for the macrostructure. The following relationships were studied: porosity (volume %) against current density; microhardness and regular porosity against current density; wear and number of oxide cells and pores per 1 mm^2 against current density; and relative wear resistance against the alloy element content (Zn, Mg, Si, Cu, Mn, etc.). The dependence of the corrosion resistance properties on the depth of the thin impervious barrier layer and the structure of the porous anodic film produced under various conditions of anodizing were also noted. It was found that the structure of anodic films contains apart from the normal micropores which constitute the regular porosity, certain macro and microcracks, as well as macrovoids, which make up the so-called irregular porosity. Relationships were revealed between hardness, frictional wear resistance and corrosion resistance of thick anodically oxidized films on the one hand and their structure on the other. It was shown that the hardness and wear resistance of anodic films produced on pure aluminum depends essentially on their regular porosity. The hardness

Card 3/ 5

23728

S/080/61/034/008/012/018
D204/D305

The influence of the structure...

of anodic films produced on aluminum alloys with high copper content (4 - 8% Cu) depends mainly on the irregular porosity. The high wear resistance of anodic films produced on a number of heterogeneous binary aluminum alloys is due to the presence in the film of crystals of intermetallic compounds (FeAl_3 , MnAl_6 , CuAl_2), as well as crystals of Ni . The lower wear resistance of anodic films produced on homogeneous alloys is due to the greater total porosity of these films. The corrosion resistance of anodic films produced on pure aluminum depends on two factors: the thickness of the barrier layer and the number of pores in the films. With an increase in current density, films form which possess higher corrosion resistance properties; this is associated with an increase in the thickness of the barrier layer and a decrease in the regular porosity. There are 9 figures, 2 tables and 11 references: 10 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: E. Keller, M. Hunter, D. Robinson, J. Electrochem. Soc., 100, 9, 411 (1953).

ASSOCIATION: Institut fizicheskoy khimii AN SSSR (Institute of

Card 4/5

The influence of the structure...

S/080/61/034/008/012/018
D204/D305

Physical Chemistry. AS, USSR)

SUBMITTED: December 31, 1960

Card 5/5

ZALIKOVICH, E.
ZALIKOVICH, E.

~~XXXXXXXXXXXX~~
Transformation of weight. Znan.sila 30 no.7:36-38 J1'55.
(Motion) (MIRA 8:10)

ZALINSKAYA, Ye. D.

"Morphology of angiosperm fossil pollen and the development of the angiosperm flora during the Upper Cretaceous and Paleogene periods."

Report submitted for 10th Intl Botanical Cong, Edinburgh, 3-12 Aug 64.

AS USSR, Moscow.

ZALINSKIY, Yu.G.; KAFAROV, V.V.

Hydrodynamics and conveying system on grid plates without
overflow connecting pieces. Med. prom. 17 no.6:20-28 Je'63
(MIRA 17:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevtiches-
kiy institut imeni S. Ordzhonikidze.

DANGYAN, M.T.; ZALINYAN, M.G.

Preparation of ~~8~~-exo-~~8~~-lactones. Part 2 [in Armenian with summary in Russian] Nauch.trudy Erev.un.no.53:15-26 '56. (MLRA 9:10)

1.Kafedra organicheskoy khimii.
(Lactones)

DANGYAN, M.T.; ZALINYAN, M.G.; ARAKELYAN, S.V.

Preparation of 2-diethylaminoethyl esters of substituted
 α -chlorocrotylacetic acids. Izv. AN Arm. SSR. Khim. nauki 16
no.1:43-46 '63 (MIRA 17:8)

1. Yerevanskiy gosudarstvennyy universitet, kafedra organi-
cheskoy khimii.

ZALINYAN, M.G.; DAVTYAN, M.T.

Synthesis of unsaturated δ lactones. Preparation of
3-butyl-6-methyl-3,4-dihydro-2H-pyran-2-one. Izv. AN Arm.SSR. Khim.nauki
18 no.1:121-123 '65. (MIRA 18:5)

1. Yerevanskiy gosudarstvennyy universitet, kafedra organicheskoy
khimii.

ZALINYAN, M.G.; DANGYAN, M.T.

Preparation of some alkoxyethyl- γ -chloroacetylacetic
acids. Izv. AN Arm. SSR. Khim. nauki 18 no.3:278-281 '65.
(MIRA 18:11)

1. Yerevanskiy gosudarstvennyy universitet, kafedra
organicheskoy khimii. Submitted May 15, 1964.

ZALINYAN, M.G.; DANGYAN, M.T.

Preparation of γ -chloroacetylsuccinic acid and its derivatives.
Report No.1: [in Armenian with summary in Russian]. Nauch. trudy
Erev. un. 60:3-8 '57. (MIRA 11:8)

1. Kafedra organicheskoy khimii Yerevanskogo gosudarstvennogo
universiteta.
(Succinic acid)

ZALINYAN, M.G.; DANGYAN, M.T.

Preparation of δ -oxy- γ -lactones. Report No.3 [in Armenian with
summary in Russian]. Nauch. trudy Erev. un. 60:9-16 '57.
(MIRA 11:8)

1.Kafedra organicheskoy khimii Yerevanskogo gosudarstvennogo
universiteta.

(Lactones)

ARAKELYAN, S.V.; DANGYAN, M.T.; ZALINYAN, M.G.; SARKISYAN, S.A.

Preparation of δ -alkoxy-(aroxy-, phthalimido)- γ -lactones.
Izv.AN Arm.SSR.Khim.nauki 15 no.5:439-442 '62. (MIRA 16:2)

1. Yerevanskiy gosudarstvennyy universitet, kafedra
organicheskoy khimii.

(Lactones)

17

ca

The utilization of "castor-oil-black" in the bleaching of fat acids. M. Zakayev. *Maslobolno-Zhirovaya Delo* 1933, No. 8, 25-6.—"Castor-oil-black" (the black residues in the refining process of castor-oil), consisting of 48-60% oil and carbon, can be used for decolorizing fat acid instead of the expensive activated carbon.

H. Hinkous

Control of the cooking of salted-out soaps. M. Zaitsev. *Moskovskoe Zhivooto Delo* 9, No. 5, 27-30(1933); *Chemie & Industrie* 31, 639. As regards the viscosity and d. of the "paste" phase, the optimum conditions of salting out of soap correspond to the triple point, i. e., to a system consisting of 3 phases, salted-out nuclei, unsalted-out paste and residual liquor. On the other hand, this system is the least favorable from the standpoint of the same consists of the salted-out phase, and renders difficult the sepn. of the paste from the impurities. It follows that the optimum conditions for the sepn. of the phases and of the impurities can be obtained only at a certain mean concn. of the paste phase and, consequently, at a corresponding concn. of the salted-out phase. These optimum conditions can be detd. as follows: Place the paste under consideration in a thermostat at 95°, and take samples for the various concns. of electrolyte; place the samples in test tubes and each time centrifuge 4 tubes simultaneously for 30 sec. under identical temp. conditions; heat the tubes every 30 sec. at 100° and note, after centrifuging, the increase in vol. of the paste phase (or rather the sum of paste + liquor); when there is no longer any increase, the total time of centrifuging is computed, and if it exceeds 4 min. the system can be considered stable. To simplify subsequent cookings and to be independent of the soap concn. in the initial paste, the paste phase is analyzed at the point corresponding to the optimum conditions of the system. The salting-out and coagulation operation are then controlled as follows: After sapon. det. the

condition of the mixt. and, according to the results, add either H₂O or a satd. soln. of electrolyte. In the same way the desired ratio between the salted-out phase and the paste phase is detd., and the fat acids content of the paste is detd. by liberating them with 50% HCl or H₂SO₄. After sepn. of the fat acids, dry Na₂SO₄ or NaCl is added to the sample analyzed so as to obtain a satd. soln., and the soln. is centrifuged twice; if a d. of 1 is assumed for soap at 100° and a d. of 0.9 for the fat acids, the percentage of the latter in the soap is given by 90(vol. of fat acids)/(vol. of soap). A. Papiouan-Couture

27

CA ZALIOPO M

1ST AND 2ND CROSS

PROCESSING AND PROPERTIES INDEX

Stability control in soap stocks for boiling 47°F house-
hold soaps. M. Zalio, *Masloboim Zhirovce Delo*
1935, 68 6. — Phase sepn. in soap stock can be inhibited
by providing optimum electrolyte content and fat content
in each batch. The problem is especially important in
large-scale manuf., of which 2 examples are cited.
Julian F. Smith

COMMON VARIANTS INDEX

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

RECENT RESEARCH
RECENT ONE DAY ISS

RECENT STRONG

RECENT ONE DAY ISS

RECENT ONE DAY ISS

Elimination of scale formation in (glycerol) concentra-
tion. M. Zakhov. *Moskovskoe Zhurnal* 11, 281 (1935). Expts. in the concn. of glycerol solns. showed that on the addn. of graphite (0.005%) based on the wt. of evapn. water the scale formation on the pipes is eliminated. The coarse-grained aggregates of the salts formed are deposited at the bottom of the evaporator and are easily removed and sepd. from the glycerol. By this method the time required for evapn. is reduced 50%. The org. and inorg. residues in the crude glycerols obtained by evapn. with and without the addn. of graphite are 4.0 and 5.25%, resp. Chas. Filane

27

Calculation of glycerol yields in the making of soap from neutral oils. M. Zakhov. *Mashobolov Zakhov* (Izlo 11, 1915-7 (1936)). A discussion with math. treatment is based on the work of Tyutyunnikov (*Moyushchik* credits 1 (1933)); cf. C. A. 28, 1936. Chas. Blanc

650.55.6 METALLURGICAL LITERATURE CLASSIFICATION

BC ZALLOP, M. B-2-7

Rapid determination of fatty acids in soap. S. Semenov and M. Zalozna (Mashin. Stn. Delo, 1940, No. 2, 22-23).—5 g. of soap are dissolved in 60 ml. of H₂O, 10 ml. of benzene are added, and the aq. layer is titrated with 0.5N-HCl (Me. are added, and the aq. layer is titrated with 0.5N-HCl (Me. are added). To the hot neutral solution are added 20 ml. of neutral 96% EtOH, and the solution is titrated with 0.5N-KOH (phenolphthalein). The % content of free fatty acids is given by $\frac{a}{b} \times 100$, where a is the no. of ml. of 0.5N-KOH used, and b is const. for a given soap stock. R. T.

ASS-5LA METALLURGICAL LITERATURE CLASSIFICATION

SECTION	SUBSECTION	TERMINOLOGY	SYMBOLS	NUMERICAL DATA	FORMULAE	REACTANTS	PRODUCTS	REACTIONS	PROPERTIES	ANALYSIS	SYNTHESIS	PREPARATION	USE	REFERENCES
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

[illegible]

130

140 AND 150 CROSES

160 AND 170 CROSES

180 AND 190 CROSES

200 AND 210 CROSES

220 AND 230 CROSES

240 AND 250 CROSES

260 AND 270 CROSES

280 AND 290 CROSES

300 AND 310 CROSES

320 AND 330 CROSES

340 AND 350 CROSES

360 AND 370 CROSES

380 AND 390 CROSES

400 AND 410 CROSES

420 AND 430 CROSES

440 AND 450 CROSES

460 AND 470 CROSES

480 AND 490 CROSES

500 AND 510 CROSES

520 AND 530 CROSES

540 AND 550 CROSES

560 AND 570 CROSES

580 AND 590 CROSES

600 AND 610 CROSES

620 AND 630 CROSES

640 AND 650 CROSES

660 AND 670 CROSES

680 AND 690 CROSES

700 AND 710 CROSES

720 AND 730 CROSES

740 AND 750 CROSES

760 AND 770 CROSES

780 AND 790 CROSES

800 AND 810 CROSES

820 AND 830 CROSES

840 AND 850 CROSES

860 AND 870 CROSES

880 AND 890 CROSES

900 AND 910 CROSES

920 AND 930 CROSES

940 AND 950 CROSES

960 AND 970 CROSES

980 AND 990 CROSES

1000 AND 1010 CROSES

1020 AND 1030 CROSES

1040 AND 1050 CROSES

1060 AND 1070 CROSES

1080 AND 1090 CROSES

1100 AND 1110 CROSES

1120 AND 1130 CROSES

1140 AND 1150 CROSES

1160 AND 1170 CROSES

1180 AND 1190 CROSES

1200 AND 1210 CROSES

1220 AND 1230 CROSES

1240 AND 1250 CROSES

1260 AND 1270 CROSES

1280 AND 1290 CROSES

1300 AND 1310 CROSES

1320 AND 1330 CROSES

1340 AND 1350 CROSES

1360 AND 1370 CROSES

1380 AND 1390 CROSES

1400 AND 1410 CROSES

1420 AND 1430 CROSES

1440 AND 1450 CROSES

1460 AND 1470 CROSES

1480 AND 1490 CROSES

1500 AND 1510 CROSES

1520 AND 1530 CROSES

1540 AND 1550 CROSES

1560 AND 1570 CROSES

1580 AND 1590 CROSES

1600 AND 1610 CROSES

1620 AND 1630 CROSES

1640 AND 1650 CROSES

1660 AND 1670 CROSES

1680 AND 1690 CROSES

1700 AND 1710 CROSES

1720 AND 1730 CROSES

1740 AND 1750 CROSES

1760 AND 1770 CROSES

1780 AND 1790 CROSES

1800 AND 1810 CROSES

1820 AND 1830 CROSES

1840 AND 1850 CROSES

1860 AND 1870 CROSES

1880 AND 1890 CROSES

1900 AND 1910 CROSES

1920 AND 1930 CROSES

1940 AND 1950 CROSES

1960 AND 1970 CROSES

1980 AND 1990 CROSES

2000 AND 2010 CROSES

2020 AND 2030 CROSES

2040 AND 2050 CROSES

2060 AND 2070 CROSES

2080 AND 2090 CROSES

2100 AND 2110 CROSES

2120 AND 2130 CROSES

2140 AND 2150 CROSES

2160 AND 2170 CROSES

2180 AND 2190 CROSES

2200 AND 2210 CROSES

2220 AND 2230 CROSES

2240 AND 2250 CROSES

2260 AND 2270 CROSES

2280 AND 2290 CROSES

2300 AND 2310 CROSES

2320 AND 2330 CROSES

2340 AND 2350 CROSES

2360 AND 2370 CROSES

2380 AND 2390 CROSES

2400 AND 2410 CROSES

2420 AND 2430 CROSES

2440 AND 2450 CROSES

2460 AND 2470 CROSES

2480 AND 2490 CROSES

2500 AND 2510 CROSES

2520 AND 2530 CROSES

2540 AND 2550 CROSES

2560 AND 2570 CROSES

2580 AND 2590 CROSES

2600 AND 2610 CROSES

2620 AND 2630 CROSES

2640 AND 2650 CROSES

2660 AND 2670 CROSES

2680 AND 2690 CROSES

2700 AND 2710 CROSES

2720 AND 2730 CROSES

2740 AND 2750 CROSES

2760 AND 2770 CROSES

2780 AND 2790 CROSES

2800 AND 2810 CROSES

2820 AND 2830 CROSES

2840 AND 2850 CROSES

2860 AND 2870 CROSES

2880 AND 2890 CROSES

2900 AND 2910 CROSES

2920 AND 2930 CROSES

2940 AND 2950 CROSES

2960 AND 2970 CROSES

2980 AND 2990 CROSES

3000 AND 3010 CROSES

3020 AND 3030 CROSES

3040 AND 3050 CROSES

3060 AND 3070 CROSES

3080 AND 3090 CROSES

3100 AND 3110 CROSES

3120 AND 3130 CROSES

3140 AND 3150 CROSES

3160 AND 3170 CROSES

3180 AND 3190 CROSES

3200 AND 3210 CROSES

3220 AND 3230 CROSES

3240 AND 3250 CROSES

3260 AND 3270 CROSES

3280 AND 3290 CROSES

3300 AND 3310 CROSES

3320 AND 3330 CROSES

3340 AND 3350 CROSES

3360 AND 3370 CROSES

3380 AND 3390 CROSES

3400 AND 3410 CROSES

3420 AND 3430 CROSES

3440 AND 3450 CROSES

3460 AND 3470 CROSES

3480 AND 3490 CROSES

3500 AND 3510 CROSES

3520 AND 3530 CROSES

3540 AND 3550 CROSES

3560 AND 3570 CROSES

3580 AND 3590 CROSES

3600 AND 3610 CROSES

3620 AND 3630 CROSES

3640 AND 3650 CROSES

3660 AND 3670 CROSES

3680 AND 3690 CROSES

3700 AND 3710 CROSES

3720 AND 3730 CROSES

3740 AND 3750 CROSES

3760 AND 3770 CROSES

3780 AND 3790 CROSES

3800 AND 3810 CROSES

3820 AND 3830 CROSES

3840 AND 3850 CROSES

3860 AND 3870 CROSES

3880 AND 3890 CROSES

3900 AND 3910 CROSES

3920 AND 3930 CROSES

3940 AND 3950 CROSES

3960 AND 3970 CROSES

3980 AND 3990 CROSES

4000 AND 4010 CROSES

4020 AND 4030 CROSES

4040 AND 4050 CROSES

4060 AND 4070 CROSES

4080 AND 4090 CROSES

4100 AND 4110 CROSES

4120 AND 4130 CROSES

4140 AND 4150 CROSES

4160 AND 4170 CROSES

4180 AND 4190 CROSES

4200 AND 4210 CROSES

4220 AND 4230 CROSES

4240 AND 4250 CROSES

4260 AND 4270 CROSES

4280 AND 4290 CROSES

4300 AND 4310 CROSES

4320 AND 4330 CROSES

4340 AND 4350 CROSES

4360 AND 4370 CROSES

4380 AND 4390 CROSES

4400 AND 4410 CROSES

4420 AND 4430 CROSES

4440 AND 4450 CROSES

4460 AND 4470 CROSES

4480 AND 4490 CROSES

4500 AND 4510 CROSES

4520 AND 4530 CROSES

4540 AND 4550 CROSES

4560 AND 4570 CROSES

4580 AND 4590 CROSES

4600 AND 4610 CROSES

4620 AND 4630 CROSES

4640 AND 4650 CROSES

4660 AND 4670 CROSES

4680 AND 4690 CROSES

4700 AND 4710 CROSES

4720 AND 4730 CROSES

4740 AND 4750 CROSES

4760 AND 4770 CROSES</

27

CA

Rapid determination of fatty acids in soap. S. Samonov and M. Zakharenko. *Mosk. gos. univ. Izv.* 1940, No. 2, 22-3 (1940).—The method is based on the neutralization with NaOH and Na_2CO_3 and decompn. of Na salts of fatty acids by titration with HCl in the presence of kerosene and the detn. of org. acids in the soln. by titration with NaOH. The hydrolysis of soap is prevented by adding neutral 80% alc. Kerosene is freed from any org. acids by shaking with NaOH and washing to a neutral reaction. Dissolve 5 g. soap in 40-50 ml. H_2O , add to the hot soln. 15 ml. kerosene and 2-3 drops of 0.02% methyl orange and titrate, with vigorous shaking, with 0.5 N HCl. Introduce 60 ml. alc. and 15-16 drops of 1% phenolphthalein and titrate with 0.5 N NaOH as above. Chas. Blanc

ESB-51A METALLURGICAL LITERATURE CLASSIFICATION

PRECISES AND PROPERTIES INDEX																									
1ST AND 2ND COLUMNS													100 AND 4TH COLUMNS												
<p>Rapid determination of phenol in soap. S. N. Semenov and M. Zaliopo. <i>Izvestiya Zhurnalov Deda</i> 16, No. 3, 20-1 (1940).—In the modification of the gravimetric detn. of PhOH in soap by pptn. as trisbromophenol, results accurate to 0.1% can be obtained in 1.5-2 hrs. by volumetric method of back titration of the excess Br reagent. Shake 1 g. of shredded soap in 50 ml. of hot water (60-70°) until dissolved, ppt. with 10 ml. of 10% CaCl₂, filter and wash the Ca soap with 25-50 ml. of cold water. Treat the filtrate with the bromate-bromide reagent (2.7837 g. KBrO₃ and 10 g. KBr in 1 l. H₂O) and 5 ml. of concd. HCl, shake and allow to stand for 15 min. Introduce 2 g. of solid KI, shake until dissolved, let stand 5 min. and titrate with 0.1 N Na₂S₂O₄ to a straw-yellow, add some starch soln. and continue the titration to a distinct blue. Make a blank test and calc. the PhOH. Chas. Blanc</p>																									
<p>ASH 35.4 METALLURGICAL LITERATURE CLASSIFICATION</p>																									

127

THEORY OF PURIFYING SPENT SOAP LYE. M. Zukhov. *Mosk. Khim. Zh.* 1960, No. 8, 2030 (1960).

Though spent soap lye contains perhaps only 0.1% of lower Na soaps (caproate to caprate) after salting out the higher soaps (laurate, myristate) removal is essential to the quality of glycerol recovered from the lye. About half of the lower fatty acid content is removed by extg. the faintly acidified lye with a melt of hydrogenated oil. Evapn. to 40-50% glycerol content and pptn. as alk. earth or heavy metal soaps is a more effective method; so is adsorption with 0.2% of active carbon from the acidified lye at 80°. One of the best coagulants for deproteinizing spent lye is $Al_2(SO_4)_3$, since it can also serve as a source of $Al(OH)_3$ for adsorption of colored impurities. The best result is given by adding $Al_2(SO_4)_3$ till pH is in the range 5.5-6.5. Julian F. Smith

ASD-SLA METALLURGICAL LITERATURE CLASSIFICATION

RECORD MAY ONLY USE

RECORD MAY ONLY USE

COMMON ELEMENTS										COMMON VARIABLE ELEMENTS									
MATERIALS INDEX										COMMON VARIABLE INDEX									
<div> <div>CA</div> <div> <p>New method for determining unsaponified fat in soaps S. N. Semenov and M. Zalkov. <i>Makholino-Zhurnal</i> <i>Pril.</i> 10, No. 5/11 71-71(1940); cf. C. A. 35, 9258. Kerosene, carefully freed from org. acids, is used as sol- vent in a volumetric detn. of free fat in soaps. If free fat content is not over 0.25%, the method is accurate within 2-3%. With a high free fat content accuracy suffers, but the detn. is still adaptable to routine control of soap manuf.</p> <p>Julian P. Smith</p> </div> </div>										<div> <div>27</div> <div> <p>117 AND TWO DERIVS</p> <p>PROCESSES AND PROPERTIES INDEX</p> </div> </div>									
<div> <div>ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION</div> <div> <p>FROM SYNONYMS</p> <p>SYNONYMS MAY ONLY USE</p> </div> </div>										<div> <div>FROM SCHWAB</div> <div> <p>SYNONYMS MAY ONLY USE</p> </div> </div>									

ZALIOPO, M.N.; BARANOV, L.M.; BORODINA, G.A.

Use of synthetic fatty acids in the production of toilet soap.
Masl.-zhir.prom. 19 no.6:17-21 '54. (MLRA 7:10)
(Soap) (Acids, Fatty)

ZALIOPO, M.N.

✓ Soap for sea and hard water M. N. Zaliope and L. M. Bakanov. *Iskustvo-Zhivotno Prom.* 21, No. 1, 18-19 (1956).—The sea-water laundering qualities of the previously described soap (C.A. 48, 8563e) were made optimum by a compn. of 30% hydrogenated sperm-whale oil, 6% rosin, and 63% coconut oil, completely saponified with 40% NaOH. At this stage the paste should contain fatty acids 48-60 and free NaOH 1.5%. This is followed by graining with 40% soln. of NaOH and settling for 2 hrs. The settled soap is dild. with saline water, grained a 2nd time, settled for 24 hrs., cooled, dried, etc. The finished product should contain fatty acids 80-83, free alkali 0.1-0.2, and salt 0.4-0.7%. Vladimir N. Krutovsky

(2)

ХАЛИОПО, М.Н. -инж...

Method of determining sodium and potash soaps in mixtures of
the two. Masl.-zhir.prom. 23 no.9:27-29 '57. (MIRA 10:12)

1. Fabrika "Svoboda."
(Soap--Analysis)

ZALIOPO, M.N., inzh.; SHAROV, I.I., inzh.

Preparation of toilet soap from fats split without the aid of a catalyst. Masl.-shir. prom. 24 no. 6:17-19 '58. (MIRA 11:7)

1. Fabrika "Svyetoda" (for Zaliopo). 2. Upravleniye meditsinskoy i parfyumernoy promyshlennosti Mosgorsovmarkhosa (for Sharov).
(Soap)

VOZNESENSKAYA, G.A., kand.med.nauk; BOZIYAN, Kh.A., vrach (Stepanakert);
SILUYANOVA, V.A., kand.med.nauk; GRIGOROVSKIY, I.M., prof.;
KUNDIYEV, Yu.I., kand.med.nauk (Kiyev); MARSHAK, M.S., prof.;
ZALTOFO, M.N.; DONETSKAYA, L.M.; ORGANOVA, M.G.

Health hints. Zdorov'e 9 no.3:30-31 Mr '63.
(HYGIENE)

(MIRA 16:5)

GETMANSKIY, I.K., inzh.; PANCHENKO, A.P.; ZALIOPO, M.N., inzh.; DONETSKAYA,
L.M.

Liquid shampoo made from purified alkyl sulfates of secondary
synthetic alcohols. Masl.-zhir. prom. 27 no.9:17-18 S '61.
(MIRA 14:11)

1. Nauchno-issledovatel'skiy institut sinteticheskikh zhirozameniteley
i moyushchikh sredstv (for Getmanskiy, Panchenko). 2. Fabrika
"Svoboda" (for Zaliopa, Donetskaya).
(Shampoo)

ROZHDESTVENSKIY, D.A.; ZALIOPO, M.N.; BORODINA, G.A.

Phase transitions in soap and their quantitative analysis. Koll.
zhur. 22 no.4:458-463 Ял-Аг '60. (MIRA 13:9)

1. Institut narodnogo khozyaystva im. G.V.Flekhanova i Fabrika
"Svoboda", Moskva.

(Soap)

ZALIOPO, M.N., inzh.

Use of sodium s ilicate in the manufacture of toilet soap. Masl.-
zhir.prom. 26 no.10:40-42 0 '60. (MIRA 13:10)

1. Moskovskaya fabrika "Svoboda."
(Scap) (Sodium silicate)

ROZHDESTVENSKIY, D.A., kand.tekhn.nauk; ZALIOPO, M.N., inzh.; BORODINA,
G.A., inzh.

Phase changes in soap and their quantitative determination.
Masl.-shir.prom. 25 no.9:24-28 '59. (MIRA 12:12)

1. Institut narodnogo khozyaystva im. G.V.Plekhanova (for
Rozhdestvenskiy). 2. Moskovskaya fabrika "Svoboda" (for
Zaliopo, Borodina)
(Soap)

PERSHIN, G.N., prof.; KRAFT, M.Ya., prof.; ROZENTUL, M.A., prof.;
 POZHARSKAYA, A.M., starshiy nauchnyy sotrudnik;
 MILOVANова, S.N., starshiy nauchnyy sotrudnik; BORODINA, G.M.,
 starshiy nauchnyy sotrudnik; MASLOV, P.Ye., starshiy nauchnyy
 sotrudnik; IVANOVSKAYA, Ye.A., mladshiy nauchnyy sotrudnik;
 ARONSON, P.Yu., mladshiy nauchnyy sotrudnik; KANCHUKH, Sh.F.;
 SHEYER, A.A.; ZALIOPO, M.P., spetsialist po moyushchim sredstvam

Treatment of your hair with selenium sulfide soap. Izobr.
 i rats. no.12:32-33 '83. (MIRA 17:2)

1. Zaveduyushchiy laboratoriyey khimioterapii infektsionnykh
 zabolevaniy Vsesoyuznogo nauchno-issledovatel'skogo khimiko-
 farmatsevticheskogo instituta im. Ordzhonikidze (for Pershin).
2. Zaveduyushchiy laboratoriyey metalloorganicheskikh soye-
 dineniy Vsesoyuznogo nauchno-issledovatel'skogo khimiko-
 farmatsevticheskogo instituta im. Ordzhonikidze (for Kraft).
3. Zaveduyushchiy otdelom Tsentral'nogo kozhno-venerolo-
 gicheskogo instituta (for Rozentul). 4. Zaveduyushchiy labora-
 toriyey lekarstvennykh form Vsesoyuznogo nauchno-issledovatel'skogo khimiko-farmatsevticheskogo instituta im. Ordzhonikidze (for Pozharskaya). 5. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut im. Ordzhonikidze (for Milovanova, Borodina, Ivanovskaya, Aronson). 6. Tsentral'nyy kozhno-venerologicheskiiy institut (for Maslov).

AUTHOR: Zalipayev, I. B.

TITLE: Rapid Cooling of Ceramic Pipes in Furnaces (Skorostnoye okhlazhdeniye keramicheskikh trub v gornakh)

PERIODICAL: Steklo i Keramika, 1957, Vol. 14, No. 1, pp. 25-26 (U.S.S.R.)

ABSTRACT: A new method was adopted at the Doroginsk Ceramic Pipe Factory (Doroginskiy keramiko-trubnyy zavod) which permits rapid cooling of ceramic pipes in furnaces within 27 - 30 hours, and reduces the pipe flows from 6 to 1%. After firing, all furnace doors and shutters are sealed with clay solution. The cooling air is introduced under the furnace roof arch (Fig. 1) and the pipes are gradually cooled according to the curve in Fig. 2. At the furnace temperatures of 580 - 600°C, the cooling air flow is reversed (Fig. 3), that is, it enters the furnace through the hearth. At the furnace temperatures of 180 - 200°C, a water spraying unit is introduced into the furnace shaft and the water is sprayed two hours later. The rate of cooling pipes at an even cooling air flow throughout the furnace can be attained at about the same rate as furnace heating.

Card 1/2

ZAGORODNOV, A.M.; ZALIPUKHIN, M.I.

Tectonic pattern of the Pur-Taz-Yenisey interfluvium. Trudy
SNIIGGIMS no.10:23-40 '60. (MIRA 15:12)
(West Siberian Plain--Geology, Structural)

ZALIS, A.I., kand. sel'skokhoz. nauk (Litovskaya SSR)

Distribution of the industries and development of nitrogen
fertilizer assortment in the northwestern region of the
U.S.S.R. Trudy LIEI no.37:70-72 '61. (MIRA 13:4)

ZALIS, A.I., kand. sel'skokhoz. nauk; MEKLENBURGAS, A.M., kand. sel'skokhoz.
nauk; LAUSKIS, S.K.

Using peat in agriculture in the Lithuanian S.S.R. Zemledolie 25 no.7:
72-77 J1 '63. (MIRA 16:9)

1. Litovskiy nauchno-issledovatel'skiy institut zemledeliya.
(Lithuania--Field crops-- Fertilizers and manures)
(Lithuania--Peat)

ZALIS, S.A.

AUTHOR: Sadovnichenko, A.I., Engineer SOV/117-58-11-34/36
TITLE: The Day of the Innovator (Den' novatora)
PERIODICAL: Mashinostroitel', 1958, Nr 11, pp 44 - 45 (USSR)

ABSTRACT: At the Nevskiy mashinostroitel'nyy zavod imeni V.I. Lenina (Neva Machine Building Plant imeni V.I. Lenin) a "Day of the Innovator" was organized on June 18, 1958, by the Komitet po metallizatsii Leningradskogo otdeleniya NTO Mashproma (Committee for Metallization, of the Leningrad Branch of NTO Mashprom). The leading engineer of the plant laboratory, S.A. Zalis, read a paper on the use of metallization in the Leningrad plants. The assistant of the chief engineer of the plant, A.V. Petukhov, spoke on the development of metallization in the plant. Metallization has shown good results in the repair of worn machine parts.

1. Flame spraying---USSR

Card 1/1

ZALIS, S.A.

ZALIS, S.A., inzh.

Advanced technology. Mashinostroitel' no.1:46-47 Ja '58. (MIRA 11:1)
(Technology)

AUTHOR: Zalis, S.A., Engineer

SON/122-58-5-18/26

TITLE: The Aluminizing of Welded Components of Large Bulk
(Alitirovaniye krupnogabaritnykh svarnykh detaley)

PERIODICAL: Vestnik Elektromyshlennosti, 1958, Nr 5,
pp 69 - 70 (USSR);

ABSTRACT: The saturation of the surface layer of steel with aluminium by a furnace diffusion process increases the resistance to scaling. The combination of temperature, time and size creates difficulties in large welded components, subject to deformations when heated. Some workshop practices developed at the Nevskiy mashinostroitel'nyy zavod (Nevskiy Engineering Plant) imeni Lenin are described, applied to the welded housings of induced draught fans. The procedures concern the prevention of deformation by applying constraints, the shortening of the time between cleaning by sand-blasting and the metallizing with aluminium, the coating with a protective paste (48% silver graphite, 20% fireclay, 30% quartz sand and 2% ammonia chloride) dissolved in waterglass (about 100% of the dry constituents), and the diffusion treatment. The treatment recommended consists of placing the component in the furnace, heated to 250 °C and holding for

Card 1/2

The Aluminizing of Welded Components of Large Bulk

SOV/122-58-5-18/26

30 minutes, heating at the rate of 45 °C per hour up to 550 °C, holding for 35 minutes, heating at the rate of 70 °C per hour to 960 °C, holding for 3 3/4 hours and finally cooling in the furnace to 300 °C. The success of a similar treatment applied to gas turbine blades is mentioned.

Card 2/2

1. Metals--Scale 2. Aluminum--Applications

ZALKIN, V.M.

Dimensional correspondence in orientation crystallization.
Zhur. fiz. khim. 38 no.10:2524-2527 0.164.

(MIRA 18:2)

GURDZHI, A.Ya.; ZALIS, V.M.; GOLOVIN, A.I.

Method of the continuous scrubbing of the nitration products of methyl ether of 4-tert-butyl-m-cresol in the production of musk ambrette. Trudy VNIISNDV no.6:156-158 '63. (MIRA 17:4)

ZALIS-ZALANSKAS, A. I. Doc Cand Agr Sci -- (diss) "The role of
various peat fertilizers in ^{the} raising ^{of} fertility of ~~the~~
light soils and the ^{yield} ~~productivity~~ of crops cultivated on these
soils ^{under} ~~in the~~ conditions of the Eastern zone of Lithuania~~USSR~~
Kaunas, 1957. 20 pp 20 cm. (Min of Agriculture USSR. Lithuanian
Agricultural Academy), 100 copies
(KL, 21-57, 104)

-79-

SOV/124-58-10-11045

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 10, p 48 (USSR)

AUTHOR: Zalishauskas, M.

TITLE: ~~The~~ Application of Turbulent Rarefaction to the Theory of Jet Devices
(Primeneniye turbulentnogo razrezheniya v teorii struynykh apparatov)

PERIODICAL: Tr. Kaunassk. politekhn. in-ta, 1957, Vol 5, pp 47-58

ABSTRACT: In analyzing the causes of the differences between the theoretical calculation of an ejector pump and the results of experiments, the author arrives at the conclusion that the initial equation of ejection is erroneous and adds to it a term which takes into account the so-called "turbulent rarefaction". Results of experiments are presented which, in the author's opinion, confirm the hypothesis introduced by him. The mixing of the fluid from the surrounding medium with the jet actually occurs in conditions of a positive pressure differential between the ejected medium and the working jet, but this differential is small (it constitutes ~0.1% of the dynamic pressure of the flow) and taking it into account in the ejection equation will, therefore, hardly have a significant effect upon the result. The

Card 1/2

SOV/124-58-10-11045

The Application of Turbulent Rarefaction to the Theory of Jet Devices

author's conclusion regarding the confirmation of his calculations by the results of experiments needs verification and is evidently explained by inaccuracy in the experiments.

G. N. Abramovich

Card 2/2

ZALISHAUSKAS, M. P. Cand Tech Sci -- (diss) "Study of Turbulent
Rarefaction ^{as applied} ~~in Relation~~ to ^{Devices} ~~in~~ the Theory of Jet Apparata."
Minsk, 1957. 13 pp 22 cm. (Min of Higher Education USSR,
Belorussian Polytechnic Inst im I. V. Stalin), 100 copies
(KL, 25-57, 113)

60
- 59 -